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## PATENT ABSTRACTS OF JAPAN

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## (54) MICROARRAY CHIP

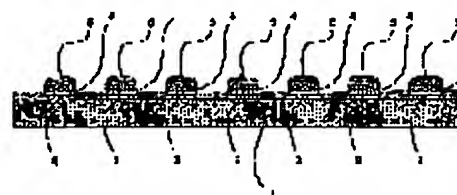
## (57) Abstract:

**PROBLEM TO BE SOLVED:** To provide a microarray chip characterized by forming easily and not widespreading a spotted DNA when DNA is stopped on a substrate in a high-density in spite of the type of immobilizing agents.

**SOLUTION:** The present invention provides the microarray chip comprising: a substrate; a wettability variable layer formed on the substrate and capable of changing the wettability by any stimulation from outside; an immobilized layer formed on the wettability variable layer to immobilize an organism polymer; and

a specific organism polymer formed on the immobilized layer to attach to target organism polymerically, wherein the wettability variable layer is the formed hydrophilic area in a patterned form stimulation from outside, and the microarray characterized by the immobilized layer formed hydrophilic area on the wettability variable layer

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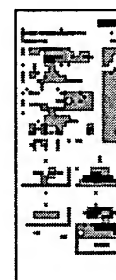
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YAMAMOTO MANABU;**Assignee: **DAINIPPON PRINTING CO LTD**  
[News, Profiles, Stocks and More about this company](#)Published / Filed: **2003-01-24 / 2001-07-06**Application Number: **JP2001000206309**IPC Code: **IPC-7: [G01N 33/53](#); [C12M 1/00](#); [C12N 15/09](#); [G01N 37/00](#);**Priority Number: **2001-07-06 JP2001000206309**Abstract: **PROBLEM TO BE SOLVED:** To provide a microarray chip characterized by forming easily and not widespreading a spotted DNA when DNA is stopped on a substrate in a high-density in spite of the type of immobilizing agents.**SOLUTION:** The present invention provides the microarray chip comprising: a substrate; a wettability variable layer formed on the substrate and capable of changing the wettability by any stimulation from outside; an immobilized layer formed on the wettability variable layer to immobilize an organism polymer; and a specific organism polymer formed on the immobilized layer to attach to target organism polymer specifically, wherein the wettability variable layer is the layer formed hydrophilic area in a patterned form by any stimulation from outside, and the microarray chip is characterized by the immobilized layer formed on the hydrophilic area on the wettability variable layer.

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Family: **None**Other Abstract Info: **CHEMABS 138(08)103233A CHEMABS 138(08)103233A**[Nominate this for the Gallery...](#)

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